A81 A 5625-1

Facts Summary

	1959	1969	1975	1976	1977	1978	1979	1980*
Ferrous Scrap for Recycling								
Purchased domestically by:[1] Steel Mills	N/A	27.9	23.5	26.2	26.2	32.4	34.3	16.5
Foundries	N/A	9.0	13.3	15.2	15.8	13.7	12.7	5.9
Total	**29.0**	**36.9**	**36.8**	**41.4**	**41.9**	**46.1**	**47.0**	**22.4**
Home scrap produced in:[1] Steel Mills	N/A	50.5	40.0	43.4	42.4	45.9	46.4	20.1
Foundries	N/A	5.8	6.0	6.6	7.1	6.2	5.8	2.4
Total	**37.4**	**56.3**	**46.0**	**50.0**	**49.5**	**52.1**	**52.2**	**22.5**
Purchased & home scrap consumed by:[1]								
Steel Mills	54.6	80.0	62.8	68.4	69.3	79.3	80.4	37.1
Foundries	11.5	14.8	19.5	21.5	22.9	19.9	18.5	8.4
Total	**66.1**	**94.8**	**82.3**	**89.9**	**92.2**	**99.2**	**98.9**	**45.5**
Exported (includes purchased & home)[1]	4.9	9.2	9.6	8.1	6.2	9.0	11.1	6.4
Prices (composite, yearly average in dollars per gross ton)[2]								
No. 1 Heavy Melting	40.49	30.87	70.90	76.47	63.15	76.23	97.80	92.13
No. 2 Bundles	27.90	23.90	44.81	55.20	44.11	50.28	62.76	60.50
Iron Ore[1]								
Mined domestically	67.5	98.9	88.3	89.6	62.4	90.8	96.0	44.0
Imported	39.9	45.6	52.4	49.7	42.5	37.6	37.8	13.1
Blast furnace iron consumed	61.8	94.6	79.6	87.0	82.0	88.4	87.5	37.5
Ferrous Production								
Raw Steel Production[1]	93.4	141.3	116.6	128.0	125.3	137.0	136.3	59.9
Steel Mill Shipments[3]	69.4	93.9	80.0	89.4	91.1	97.9	100.3	44.0
Ferrous Foundries—Castings Shipments[4]	14.6	19.1	15.1	16.8	17.5	18.1	17.3	6.8
Finished Steel Composite Price[2] (yearly average, cents-per-pound)	6.196	7.091	13.102	14.213	15.577	17.957	19.984	21.425
Steel Production[3]								
By type of furnace and percent of total output								
Basic Oxygen Furnace (tons)	1.9	60.2	71.8	79.9	77.4	83.5	83.3	36.5
(%)	**2.0%**	**42.6%**	**61.6%**	**62.4%**	**61.8%**	**60.9%**	**61.1%**	**60.9%**
Electric	8.5	20.1	22.7	24.6	27.9	32.2	33.9	16.1
	9.1%	**14.2%**	**19.5%**	**19.2%**	**22.3%**	**23.5%**	**24.9%**	**26.9%**
Open Hearth	81.7	60.9	22.2	23.5	20.0	21.3	19.1	7.3
	87.5%	**43.1%**	**19.0%**	**18.4%**	**16.0%**	**15.5%**	**14.0%**	**12.2%**
Ferrous Scrap Consumption by Furnace (purchased & home)[1]								
Basic Oxygen	0.6	19.8	23.4	26.2	25.0	26.0	26.5	11.6
Blast	3.2	4.8	3.9	3.7	3.8	4.2	4.1	2.0
Cupola	10.7	15.1	11.7	13.3	14.3	14.1	12.8	5.1
Electric	10.4	23.8	29.9	32.3	36.4	41.3	43.6	22.2
Open Hearth	38.7	30.7	11.8	12.3	11.1	11.8	10.5	4.1
Other	2.4	0.7	1.6	2.0	1.6	1.9	1.5	0.6

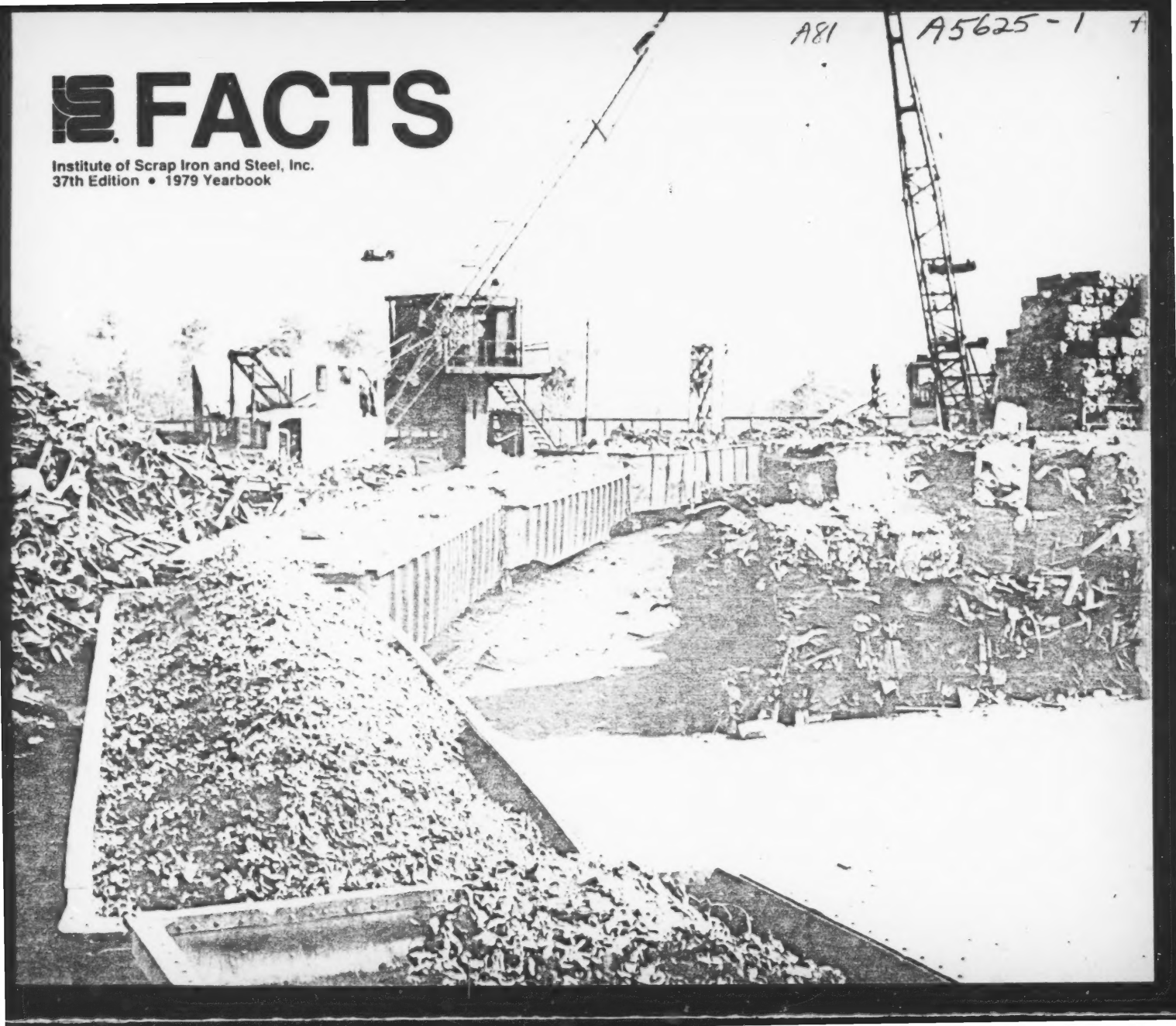
Sources:
[1]U.S. Bureau of Mines (in millions of net tons)
[2]*Iron Age*
[3]American Iron & Steel Institute (in millions of net tons)
[4]U.S. Bureau of the Census (in millions of net tons)

***First six months.**

A81 A5625-1

FACTS

Institute of Scrap Iron and Steel, Inc.
37th Edition • 1979 Yearbook



The Institute

The Institute of Scrap Iron and Steel, Inc., founded in 1928, is a national association of more than 1,600 firms—predominantly processors and brokers of ferrous and nonferrous scrap. These firms handle, process and/or ship approximately 95 percent of all purchased ferrous scrap consumed in the U.S. or exported. Member companies also include consumers of scrap metals and suppliers to the industry.

A scrap metal processor is defined as one, who, from a fixed location, utilizes machinery and equipment for processing and manufacturing iron, steel or nonferrous metallic scrap into prepared grades and whose principal product is scrap iron, scrap steel or nonferrous metallic scrap for remelting purposes.

Facts
37th Edition
1979 Yearbook

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Note: All tonnage figures are in net (short) tons which equal 2,000 pounds. Scrap price tables are based on gross (long) tons equal to 2,240 pounds.

Publications

"ISIS Handbook Including Specifications for Iron and Steel Scrap" ($5.00)
"Recycling Iron and Steel Scrap Saves Energy"
"Municipal Solid Waste and Resource Recovery: Position Statement and Observations"
"Discfiminatory Railroad Freight Rates"
"Tax Equity for Ferrous Scrap"
"Motor Vehicle Detitling"
"Ferrous Scrap—An International Commodity"

Phoenix Quarterly: To be placed on the complimentary mailing list to receive the Institute's award winning public interest periodical, write the Institute giving your full address. Recent issues on the following subjects are available:

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"Steel Industry in the Eighties"
"Auto Theft"
"Scrap Exports"
"International Trade in Scrap"
"'Isis' Scrap Sculpture"
"Air Bags"
"Gondola Shortage"
"Return of the Junk Car"
"Scrap Backlog"
"Foundries"

Facts summary

	1959	1969	1975	1976	1977	1978	1979
Ferrous Scrap for Recycling							
Purchased domestically by [1] Steel Mills	N.A.	27.9	23.5	26.2	26.2	32.4	34.3
Foundries	N.A.	9.0	13.3	15.2	15.8	13.7	12.7
Total	**29.0**	**36.9**	**36.8**	**41.4**	**41.9**	**46.1**	**47.0**
Home scrap produced in [1] Steel Mills	N.A.	50.5	40.0	43.4	42.4	45.9	46.4
Foundries	N.A.	5.8	6.0	6.6	7.1	6.2	5.8
Total	**37.4**	**56.3**	**46.0**	**50.0**	**49.5**	**52.1**	**52.2**
Purchased & home scrap consumed by [1] Steel Mills	54.6	80.0	62.8	68.4	69.3	79.3	80.4
Foundries	11.5	14.8	19.5	21.5	22.9	19.9	18.5
Total	**66.1**	**94.8**	**82.3**	**89.9**	**92.2**	**99.2**	**98.9**
Exported (includes purchased & home)[1]	4.9	9.2	9.6	8.1	6.2	9.0	11.1
Prices (composite, yearly average in dollars per gross ton)[2]							
No. 1 Heavy Melting	40.49	30.87	70.90	76.47	63.15	76.23	97.80
No. 2 Bundles	27.90	23.90	44.81	55.20	44.11	50.28	62.76
Iron Ore[1]							
Mined domestically	67.5	98.9	88.3	89.6	62.4	90.8	96.0
Imported	39.9	45.6	52.4	49.7	42.5	37.6	37.8
Blast furnace iron consumed	61.8	94.6	79.6	87.0	82.0	88.4	87.5
Ferrous Production							
Raw Steel Production[1]	93.4	141.3	116.6	128.0	125.3	137.0	136.3
Steel Mill Shipments[3]	69.4	93.9	80.0	89.4	91.1	97.9	100.3
Ferrous Foundries—Castings Shipments[4]	14.6	19.1	15.1	16.8	17.5	18.1	17.3
Finished Steel Composite Price[2] (yearly average, cents-per-pound)	6.196	7.091	13.102	14.213	15.577	17.957	19.984
Steel Production[3]							
By type of furnace and percent of total output*							
Basic Oxygen Furnace (tons)	1.9	60.2	71.8	79.9	77.4	83.5	83.3
(%)	**2.0%**	**42.6%**	**61.6%**	**62.4%**	**61.8%**	**60.9%**	**61.1%**
Electric	8.5	20.1	22.7	24.6	27.9	32.2	33.9
	9.1%	**14.2%**	**19.5%**	**19.2%**	**22.3%**	**23.5%**	**24.9%**
Open Hearth	81.7	60.9	22.2	23.5	20.0	21.3	19.1
	87.5%	**43.1%**	**19.0%**	**18.4%**	**16.0%**	**15.5%**	**14.0%**
Ferrous Scrap Consumption by Furnace (purchased & home)[1]							
Basic Oxygen	0.6	19.8	23.4	26.2	25.0	26.0	26.5
Blast	3.2	4.8	3.9	3.7	3.8	4.2	4.1
Cupola	10.7	15.1	11.7	13.3	14.3	14.1	12.8
Electric	10.4	23.8	29.9	32.3	36.4	41.3	43.6
Open Hearth	38.7	30.7	11.8	12.3	11.1	11.8	10.5
Other	2.4	0.7	1.6	2.0	1.6	1.9	1.5

Sources
[1] U.S. Bureau of Mines (in millions of net tons)
Iron Age
[2] American Iron & Steel Institute (in millions of net tons)
[3] U.S. Bureau of the Census (in millions of net tons)
*Bessemer production 1959, 1.4 million net tons (1.5%)

Ferrous scrap consumption, purchased scrap receipts, home scrap production, exports and imports — thousands of net tons

Year	Total U.S. Scrap Consumed	Purchased Scrap Receipts[1]	Home Scrap Production	Foreign Trade in Iron & Steel Scrap Exports	Imports[2]
1910	14,672	8,200	6,472	32	81
1911	13,552	6,500	7,052	87	19
1912	18,032	10,200	7,832	119	26
1913	17,136	9,600	7,536	104	49
1914	13,664	8,800	4,864	37	39
1915	20,832	9,700	11,132	88	90
1916	26,208	12,100	14,108	239	130
1917	30,016	14,100	15,916	164	202
1918	28,448	11,000	17,448	2	72
1919	23,184	1,120	22,064	30	198
1920	29,120	16,800	12,320	245	158
1921	13,888	9,100	4,788	43	46
1922	26,544	15,500	11,044	76	160
1923	30,240	14,300	15,940	74	181
1924	29,344	15,700	13,644	110	75
1925	34,384	17,900	16,484	93	12
1926	36,064	19,000	17,064	118	97
1927	34,384	19,000	15,384	268	67
1928	38,080	22,400	15,680	578	71
1929	42,112	23,900	18,212	624	101
1930	29,792	16,800	12,992	402	30
1931	20,496	12,300	8,196	152	18
1932	11,200	6,700	4,500	255	11
1933	19,488	9,500	9,988	866	63
1934	21,056	10,600	10,456	2,055	49
1935	29,585	14,637	14,948	2,356	—
1936	40,721	19,552	21,170	2,168	—
1937	42,567	20,311	22,256	4,594	—
1938	23,906	11,226	12,680	3,358	—
1939	36,327	16,705	19,622	4,015	42
1940	44,530	19,482	25,048	3,159	21
1941	59,216	25,312	33,905	904	70
1942	60,265	27,136	33,129	142	128
1943	61,651	26,614	35,037	55	167
1944	61,349	25,923	35,426	96	131
1945	56,191	25,230	30,961	96	67
1946	49,484	23,350	26,134	149	58
1947	60,864	29,285	31,579	194	71
1948	64,964	32,544	32,420	212	481
1949	54,338	25,172	29,166	299	1,151
1950	68,901	33,376	35,525	217	785
1951	76,728	37,871	38,857	245	417
1952	69,023	34,186	34,837	353	154
1953	77,131	—	—	317	174
1954	61,354	—	—	1,696	239
1955	81,375	35,735	45,501	5,172	229
1956	80,315	36,846	43,676	6,446	256
1957	73,549	31,086	42,996	6,766	239
1958	56,360	23,291	33,714	2,928	333
1959	66,062	29,043	37,418	4,939	309
1960	66,469	26,095	39,632	8,040	179
1961	64,327	25,305	38,475	9,714	268
1962	66,160	25,284	40,645	5,112	210
1963	74,621	29,432	44,655	6,364	217
1964	84,626	31,831	52,262	7,898	282
1965	90,359	35,804	55,213	6,170	212
1966	91,583	36,671	55,463	5,858	407
1967	85,361	32,654	52,312	7,635	230
1968	87,060	33,587	53,545	6,571	294
1969	94,816	36,929	56,287	9,177	335
1970	85,559	34,148	52,575	10,362	301
1971	82,817	34,208	49,194	6,257	283
1972	93,371	41,671	51,184	7,384	312
1973	103,589	44,711	57,801	11,256	349
1974	105,482	51,334	55,250	8,696	201
1975	82,331	36,753	46,042	9,602	305
1976	89,910	41,399	50,026	8,118	507
1977	92,198	41,933	49,517	6,176	614
1978	99,224	46,068	52,082	9,038	717
1979	98,901	46,967	52,215	11,054	760

[1]To 1952, actual consumption data. From 1955, receipts less shipments.
[2]From 1945, totals include tinplate.
Source: 1935 to present, U.S. Bureau of Mines; 1910 through 1934, ISIS annual yearbooks.

U.S. consumption of ferrous scrap and blast furnace iron (BFI) by type of furnace — thousands of net tons

Year	Basic Oxygen[1]		Blast	Cupola		Electric		Open Hearth		Other		Total Consumed	
	Scrap	BFI	Scrap	Scrap	BFI	Scrap	BFI	Scrap	BFI	Scrap	BFI	Scrap	BFI
1935	—	—	1,736	4,658	2,997	1,025	37	21,414	16,324	752	3,737	29,585	23,095
1936	—	—	2,337	6,512	4,070	1,397	26	29,451	24,596	1,024	5,018	40,721	33,710
1937	—	—	2,656	7,288	4,699	1,933	50	29,584	28,132	1,105	5,262	42,567	38,143
1938	—	—	1,192	4,695	2,693	1,048	18	16,361	15,377	610	2,637	23,906	20,725
1939	—	—	1,933	6,415	3,349	1,673	31	25,531	26,826	775	5,027	36,327	35,233
1940	—	—	2,080	8,030	4,106	2,495	47	31,008	36,297	917	5,736	44,530	46,186
1941	—	—	2,905	10,564	5,389	4,178	73	39,923	42,481	1,646	8,242	59,216	56,185
1942	—	—	2,938	9,055	4,491	5,906	93	39,560	45,539	2,806	8,920	60,265	59,043
1943	—	—	3,568	8,004	3,603	6,914	394	40,214	47,108	2,951	9,210	61,651	60,315
1944	—	—	3,638	7,543	3,941	6,422	240	40,808	48,281	2,938	8,490	61,349	60,952
1945	—	—	3,339	7,344	4,084	5,083	163	37,756	41,683	2,669	7,257	56,191	53,187
1946	—	—	2,273	8,559	4,613	3,698	113	32,442	34,608	2,512	5,738	49,484	45,072
1947	—	—	2,692	10,558	5,439	5,224	127	39,288	45,338	3,102	7,377	60,864	58,281
1948	—	—	2,932	11,467	5,281	6,706	132	40,623	47,267	3,236	7,346	64,964	60,026
1949	—	—	3,007	8,757	4,764	4,697	108	35,522	41,783	2,355	6,792	54,338	53,447
1950	—	—	4,390	10,721	6,059	7,323	154	43,512	50,946	2,955	7,784	68,901	64,943
1951	—	—	4,478	12,319	6,560	9,372	144	47,416	56,055	3,143	8,655	76,728	71,414
1952	—	—	4,274	10,169	5,438	8,793	119	42,997	49,374	2,790	6,619	69,023	61,551
1953	—	—	4,948	10,634	5,550	9,157	181	49,668	61,307	2,724	7,670	77,131	74,708
1954	—	—	3,628	9,564	4,897	6,832	178	39,028	48,632	2,302	4,955	61,354	58,662
1955	—	—	4,722	12,058	5,962	9,801	274	51,555	63,750	3,239	7,230	81,375	77,216
1956	—	—	4,404	11,025	5,349	11,057	233	50,806	62,166	3,023	7,248	80,315	74,995
1957	—	—	4,171	10,325	4,660	9,939	275	46,439	64,998	2,675	6,421	73,549	76,353
1958	—	—	2,857	8,654	3,709	8,050	256	34,342	48,408	2,457	4,890	56,360	57,262
1959	581	1,574	3,189	10,727	4,412	10,353	391	38,657	51,250	2,555	4,145	66,062	61,773
1960	1,150	2,937	3,594	10,045	3,822	9,920	372	39,613	55,270	2,147	4,225	66,469	66,626
1961	1,371	3,552	3,551	9,511	3,439	10,103	279	37,872	54,611	1,919	3,917	64,327	65,797
1962	1,847	5,020	3,782	10,710	3,402	10,871	240	36,784	54,509	2,166	3,424	66,160	66,595
1963	2,776	7,082	4,306	11,920	3,597	12,935	212	40,637	57,291	2,047	4,507	74,621	72,689
1964	5,486	12,446	4,816	13,407	3,704	14,862	325	43,881	65,206	2,174	4,701	84,626	86,382
1965	7,774	18,519	5,054	14,781	3,757	16,694	387	43,725	61,483	2,331	4,800	90,359	88,945
1966	11,368	27,821	5,226	15,273	3,667	18,002	286	39,339	55,508	2,375	4,488	91,583	91,770
1967	13,932	33,553	4,724	13,877	3,162	18,011	378	33,043	46,386	1,774	3,892	85,361	87,371
1968	16,112	39,284	4,267	14,776	2,909	19,550	519	31,619	40,145	736	7,096	87,060	89,953
1969	19,828	46,408	4,779	14,978	2,911	23,807	332	30,706	37,447	718	7,537	94,816	94,635
1970	21,124	49,136	5,302	12,988	2,076	23,014	453	22,313	31,529	818	6,932	85,559	90,126
1971	20,058	52,023	3,708	14,806	1,865	24,668	825	18,832	23,573	745	2,929	82,817	81,215
1972	24,192	60,232	3,565	15,544	2,264	30,459	961	18,824	22,375	787	3,308	93,371	89,140
1973	27,318	68,027	4,246	15,252	2,276	35,353	1,379	20,557	25,477	863	4,325	103,589	101,534
1974	26,614	66,614	4,558	15,640	2,123	37,476	1,220	19,159	22,507	2,037	4,328	105,482	96,792
1975	23,392	59,210	3,931	11,749	1,362	29,850	1,019	11,780	14,554	1,629	3,493	82,331	79,638
1976	26,204	66,138	3,692	13,341	1,197	32,301	638	12,337	15,410	2,035	3,662	89,910	87,045
1977	25,034	63,877	3,771	14,325	1,241	36,414	993	11,087	12,531	1,567	3,361	92,198	82,003
1978	26,006	69,028	4,185	14,077	1,056	41,289	1,440	11,768	13,444	1,899	3,453	99,224	88,420
1979	26,496	68,526	4,117	12,774	1,026	43,555	905	10,478	12,865	1,481	4,135	98,901	87,457

1. None reported prior to 1954; 1954-1958 included under other.
Source: U.S. Bureau of Mines

Purchased scrap receipts, home scrap production and ferrous scrap consumption by grade — thousands of net tons

Total—All Types of Manufacturers	1974 Purchased Scrap Receipts[1]	1974 Home Scrap Production	1974 Total Scrap Consumed	1975 Purchased Scrap Receipts[1]	1975 Home Scrap Production	1975 Total Scrap Consumed	1976 Purchased Scrap Receipts[1]	1976 Home Scrap Production	1976 Total Scrap Consumed
GRADE OF SCRAP									
Carbon steel:									
Low-phosphorus plate and punchings	2,343	316	2,658	2,188	338	2,500	2,297	462	2,730
Cut structural and plate	2,288	512	2,807	1,642	443	2,112	1,862	369	2,211
No. 1 heavy melting steel	8,871	20,485	29,016	5,882	17,154	22,857	6,240	18,281	24,606
No. 2 heavy melting steel	3,346	1,149	4,254	2,116	945	3,267	2,499	1,221	3,612
No. 1 and electric furnace bundles	7,745	2,741	10,297	5,942	2,326	8,057	7,260	2,729	9,352
No. 2 and all other bundles	4,097	476	4,314	2,176	251	2,671	2,676	350	3,025
Electric furnace 1 foot and under (not bundles)	489	103	611	450	78	534	686	98	744
Railroad rails	269	34	305	132	6	142	169	3	166
Turnings and borings	2,652	405	2,990	1,853	404	2,375	1,944	387	2,171
Slag scrap (Fe content 70%)	1,681	2,436	4,087	1,416	2,695	4,120	1,306	2,943	4,231
Shredded or fragmentized	3,410	5	3,249	2,613	59	2,747	3,033	13	2,999
No. 1 busheling[2]	—	—	—	—	—	—	—	—	—
All other carbon steel scrap	5,075	12,520	17,541	3,700	10,550	14,006	4,281	11,512	15,519
Stainless steel scrap	552	773	1,286	278	494	787	415	633	1,091
Alloy steel (except stainless)	540	2,114	2,623	377	1,866	2,140	373	1,691	2,075
Ingot mold scrap	538	2,950	3,823	322	2,249	2,167	450	3,004	3,297
Machinery and cupola cast iron[3]	—	—	—	862	576	1,455	1,082	725	1,784
Cast iron borings	2,120	1,973	4,082	1,759	1,113	2,772	1,509	738	2,232
Motor blocks	836	396	1,230	606	343	958	691	388	1,084
Other iron scrap	1,575	4,686	6,263	1,269	3,697	5,030	1,187	3,961	5,136
Other scrap	2,907	1,174	4,046	1,171	455	1,636	1,441	439	1,848
Total scrap[4]	**51,334**	**55,250**	**105,482**	**36,753**	**46,042**	**82,331**	**41,399**	**50,026**	**89,910**

1. Receipts less shipments. 2. This grade not reported individually prior to 1977.
3. This grade not reported individually prior to 1975. 4. Data may not add to totals because of independent rounding.
Source: U.S. Bureau of Mines

Castings shipped by U.S. ferrous foundries — millions of net tons

1959	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979
14.6	18.8	19.0	17.2	17.9	19.0	16.5	16.3	17.9	20.0	18.7	15.1	16.8	17.5	18.1	17.3

Source: U.S. Bureau of the Census

Total—All Types of Manufacturers	1977 Purchased Scrap Receipts[1]	1977 Home Scrap Production	1977 Total Scrap Consumed	1978 Purchased Scrap Receipts[1]	1978 Home Scrap Production	1978 Total Scrap Consumed	1979 Purchased Scrap Receipts[1]	1979 Home Scrap Production	1979 Total Scrap Consumed
GRADE OF SCRAP									
Carbon steel:									
Low-phosphorus plate and punchings	1,895	302	2,189	2,049	359	2,463	2,081	396	2,529
Cut structural and plate	2,039	447	2,482	2,336	464	2,807	2,412	644	3,055
No. 1 heavy melting steel	6,503	18,117	24,858	7,576	18,707	26,859	8,832	18,173	27,055
No. 2 heavy melting steel	2,286	1,109	3,527	2,637	1,365	4,022	2,621	1,519	4,134
No. 1 and electric furnace bundles	6,870	2,707	9,608	8,148	3,177	11,662	7,672	3,018	10,820
No. 2 and all other bundles	2,431	296	2,764	2,613	76	2,710	2,686	68	2,721
Electric furnace 1 foot and under (not bundles)	147	92	240	187	32	215	369	32	399
Railroad rails	206	—	195	207	3	204	186	—	186
Turnings and borings	1,972	409	2,383	2,460	403	2,848	2,115	463	2,580
Slag scrap (Fe content 70%)	1,455	2,641	4,183	1,407	2,852	4,238	1,653	3,135	4,815
Shredded or fragmentized	3,225	5	3,156	3,490	29	3,593	3,810	41	3,824
No. 1 busheling[2]	2,081	74	2,175	1,926	61	2,021	1,874	65	2,007
All other carbon steel scrap	3,844	11,338	15,056	3,816	12,052	15,908	3,400	12,260	15,544
Stainless steel scrap	421	676	1,090	374	701	1,073	406	792	1,205
Alloy steel (except stainless)	386	1,702	2,007	426	1,776	2,176	503	1,689	2,214
Ingot mold scrap	290	2,918	3,631	418	3,125	3,625	381	3,377	3,502
Machinery and cupola cast iron[3]	1,012	781	1,804	898	848	1,756	983	751	1,727
Cast iron borings	1,496	824	2,331	1,664	798	2,439	1,601	678	2,280
Motor blocks	734	458	1,177	762	453	1,154	683	375	1,020
Other iron scrap	1,138	4,063	5,209	1,141	4,210	5,323	1,254	4,120	5,211
Other scrap	1,501	557	2,133	1,532	591	2,128	1,445	619	2,072
Total scrap[4]	**41,933**	**49,517**	**92,198**	**46,068**	**52,082**	**99,224**	**46,967**	**52,215**	**98,901**

Trend of U.S. steel production by furnace[1] — millions of net tons and by percentage[2]

	1929	1939	1949	1959	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979
Basic Oxygen																				
tons	—	—	—	1.9	15.4	22.9	33.9	41.4	48.8	60.2	63.3	63.9	74.6	83.3	81.6	71.8	79.9	77.4	83.5	83.3
%	**—**	**—**	**—**	**2.0**	**12.1**	**17.4**	**25.3**	**32.5**	**37.1**	**42.6**	**48.1**	**53.1**	**56.0**	**55.2**	**56.0**	**61.6**	**62.4**	**61.8**	**60.9**	**61.1**
Electric																				
tons	1.1	1.0	3.8	8.5	12.7	13.8	14.9	15.1	16.8	20.1	20.2	20.9	23.7	27.8	28.7	22.7	24.6	27.9	32.2	33.9
%	**1.7**	**1.9**	**4.9**	**9.1**	**10.0**	**10.5**	**11.1**	**11.9**	**12.8**	**14.2**	**15.4**	**17.4**	**17.8**	**18.4**	**19.7**	**19.5**	**19.2**	**22.3**	**23.5**	**24.9**
Open Hearth																				
tons	54.2	48.4	70.2	81.7	98.1	94.2	85.0	70.7	65.8	60.9	48.0	35.6	34.9	39.8	35.5	22.2	23.5	20.0	21.3	19.2
%	**85.8**	**91.7**	**90.0**	**87.5**	**77.2**	**71.6**	**63.4**	**55.6**	**50.0**	**43.1**	**36.5**	**29.6**	**26.2**	**26.4**	**24.4**	**19.0**	**18.4**	**16.0**	**15.5**	**14.1**
Total Steel Production	**63.2**	**52.8**	**78.0**	**93.4**	**127.1**	**131.5**	**134.1**	**127.2**	**131.5**	**141.3**	**131.5**	**120.4**	**133.2**	**150.8**	**145.7**	**116.6**	**128.0**	**125.3**	**137.0**	**136.3**

1. Data for leading types of furnaces only. 2. Calculated as a percentage of total steel production.
Source: American Iron and Steel Institute

U.S. exports of ferrous scrap by grade — thousands of net tons

Grade	1974	1975	1976	1977	1978	1979
No. 1 heavy melting scrap	2,565	2,766	2,063	1,750	2,362	2,697
No. 2 heavy melting scrap	883	1,102	705	594	837	1,117
No. 1 baled steel scrap	78	120	95	103	148	145
No. 2 baled steel scrap	1,304	1,159	845	336	326	652
Stainless steel scrap	35	66	112	75	115	112
Shredded steel scrap	1,999	2,406	2,179	1,606	2,684	2,980
Borings, shovelings, and turnings	544	597	644	476	750	889
Other steel scrap[1]	463	726	760	601	1,382	1,828
Iron scrap	626	500	474	314	434	632
Rerolling material[2]	199	160	241	321	—	—
Total	**8,696**	**9,602**	**8,118**	**6,176**	**9,038**	**11,052**

1. Includes terneplate and tinplate. 2. Not reported separately after 1977.
Source: U.S. Bureau of Mines

U.S. exports of ferrous scrap[1] by country[2] — thousands of net tons

	1959	1969	1975	1976	1977	1978	1979
Canada	607	616	878	890	523	795	861
Mexico	426	602	1,309	595	343	450	814
Germany, Fed. Rep. of	95	93	14	29	16	—	212
Greece	—	—	161	222	300	340	500
Italy	371	879	613	634	208	657	1,186
Japan	3,110	4,219	2,405	1,256	1,044	3,190	2,922
Korea, Rep. of	—	727	791	955	1,540	1,503	1,418
Portugal	—	—	—	—	—	—	99
Spain	78	1,034	1,726	1,869	788	744	1,400
Taiwan	74	98	303[3]	304[3]	446[3]	394	634
Thailand	—	73	50	94	146	—	137
Turkey	—	79	89	163	326	258	242

[1]Includes rerolling material.
[2]Canada and Mexico plus ten largest importing countries in current year; dash means separate total not available.
[3]Revised.
Source: U.S. Bureau of Mines

U.S. imports of ferrous scrap compared to imports of iron ore, pig iron and steel products — millions of net tons

	Scrap[1]	Iron Ore	Pig Iron	Steel
1949	1.2	8.3	0.1	0.3
1959	0.3	39.8	0.7	2.3
1963	0.2	37.3	0.6	5.7
1964	0.3	47.5	0.7	6.7
1965	0.2	50.5	0.9	10.7
1966	0.4	51.8	1.2	11.2
1967	0.2	50.0	0.6	11.9
1968	0.3	49.2	0.8	18.5
1969	0.3	45.6	0.4	14.5
1970	0.3	50.3	0.2	13.9
1971	0.3	44.9	0.3	18.7
1972	0.3	40.1	0.6	18.2
1973	0.3	48.5	0.4	15.6
1974	0.2	53.8	0.3	16.8
1975	0.3	52.4	0.5	12.5
1976	0.5	49.7	0.4	14.3
1977	0.6	42.5	0.4	19.3
1978	0.7	37.6	0.4	21.1
1979	0.7	37.8	0.2	17.5

1 Includes tinplate.
Source: U.S. Bureau of Mines

No. 1 heavy melting steel scrap composite price[1] — dollars per gross ton

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Average
1979	$97.56	110.75	119.75	99.96	97.75	100.83	96.10	90.33	88.08	87.30	92.50	92.74	**97.80**
1978	$70.56	72.08	74.25	76.08	71.90	74.76	77.75	76.33	72.91	74.83	83.41	89.91	**76.23**
1977	$72.17	72.33	73.50	71.92	65.30	61.91	61.25	61.37	58.83	49.10	49.50	60.59	**63.15**
1976	$72.16	78.08	89.03	91.75	83.75	84.50	87.33	79.56	70.41	64.00	63.77	67.50	**76.47**
1975	$78.00	79.25	85.03	86.08	81.75	67.06	58.21	69.58	73.46	62.04	58.50	61.00	**70.90**
1974	$83.67	107.00	122.38	124.37	95.55	110.21	127.60	115.09	115.04	119.58	101.50	80.24	**108.51**
1973	$48.24	49.08	47.75	48.22	51.66	54.16	54.09	54.91	58.83	69.02	80.83	78.58	**57.95**
1972	$33.50	35.54	35.08	35.25	35.50	35.25	36.03	37.58	38.33	38.23	39.25	43.16	**36.89**
1971	$40.67	40.17	36.57	34.09	34.23	32.75	32.17	32.10	33.17	32.42	30.68	30.06	**34.09**
1970	$40.50	46.17	43.83	41.08	43.08	43.10	40.33	40.27	42.63	40.08	35.50	36.17	**41.06**
1969	$27.25	28.00	26.70	26.67	29.16	29.63	30.17	32.84	35.83	34.00	33.50	36.76	**30.87**
1968	$31.83	31.50	29.08	26.20	24.96	23.50	23.24	23.50	23.90	23.50	24.04	25.10	**25.86**
1967	$27.83	27.66	28.00	27.17	26.50	26.50	26.84	27.65	27.92	27.10	28.41	29.84	**27.62**
1966	$33.96	35.25	34.33	31.83	30.08	29.50	31.08	30.70	29.42	28.83	28.50	27.67	**30.87**
1965	$38.17	36.92	37.20	37.54	36.67	34.50	34.50	33.43	30.67	29.58	30.97	32.08	**34.35**
1964	$28.83	28.66	29.17	30.79	31.83	32.97	34.33	37.84	38.50	36.58	37.70	38.91	**33.67**
1963	$27.17	27.92	27.58	28.30	28.67	25.83	25.33	27.01	26.83	26.75	26.50	27.50	**27.11**
1962	$37.41	35.33	31.91	30.30	25.83	24.70	26.25	27.36	26.16	24.17	23.58	25.83	**28.23**
1961	$31.50	33.50	37.83	38.50	36.50	37.39	36.79	38.00	39.42	37.90	32.83	35.23	**36.28**
1960	$41.83	39.77	33.67	33.42	32.90	31.25	31.29	32.23	31.92	29.67	28.33	29.17	**32.95**
1959	$41.08	43.66	40.43	35.08	34.41	37.90	39.33	39.91	41.70	44.83	45.67	41.90	**40.49**
1958	$33.88	37.17	36.58	32.73	33.50	35.40	38.25	42.08	43.10	42.66	41.70	39.90	**38.08**
1957	$59.37	53.17	48.50	42.80	46.17	54.23	54.00	52.96	47.29	37.37	32.83	32.33	**46.75**
1956	$52.33	48.75	49.43	54.88	51.17	45.08	46.42	56.10	58.58	56.80	61.67	64.58	**53.81**
1955	$34.62	36.16	37.27	36.50	34.40	34.96	39.50	43.96	44.25	44.75	45.47	51.71	**40.19**
1954	$28.66	25.91	23.83	25.38	27.79	27.88	26.87	28.33	29.71	32.75	33.40	32.46	**28.58**
1953	$42.00	42.92	44.18	41.75	38.59	40.97	44.60	43.46	36.53	32.67	35.21	31.33	**39.52**
1952	$42.00	42.00	42.00	42.00	42.00	41.37	40.10	42.00	42.00	42.00	42.00	42.00	**41.79**
1951	$46.15	44.19	43.00	43.00	43.00	43.00	43.00	43.00	43.00	42.50	42.00	42.00	**43.15**
1950	$26.58	27.25	28.05	29.04	33.40	39.29	37.25	39.85	40.69	40.67	40.98	44.02	**34.75**
1949	$41.36	38.21	35.43	23.86	22.67	20.78	19.33	20.85	25.67	26.40	28.98	27.17	**27.56**

No. 1 heavy melting steel scrap composite price[1] — dollars per gross ton (annual average)

1948	$41.66	**1945**	$19.15	**1940**	$18.76	**1935**	$11.85	**1930**	$13.46	**1925**	$17.12	**1920**	$23.71
1947	36.35	**1944**	18.55	**1939**	16.39	**1934**	11.07	**1929**	16.30	**1924**	17.15	**1919**	17.89
1946	20.28	**1943**	19.17	**1938**	13.54	**1933**	9.47	**1928**	14.29	**1923**	19.05	**1918**	28.76
		1942	19.17	**1937**	18.03	**1932**	7.54	**1927**	14.00	**1922**	15.83	**1917**	29.19
		1941	19.50	**1936**	14.83	**1931**	9.80	**1926**	15.48	**1921**	12.61	**1916**	17.22

1. Average price of No. 1 heavy melting steel scrap delivered to consumers at Pittsburgh, Philadelphia and Chicago.
Note: OPA ceiling prices effective April 3, 1941; terminated Nov. 10, 1946. OPS ceiling prices effective Feb. 7, 1951; terminated Feb. 13, 1953.
Source: *Iron Age*

No. 2 bundles composite price[1] — dollars per gross ton

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Average
1979	$61.56	68.17	73.25	63.43	65.75	67.50	62.76	58.58	57.41	56.76	58.58	59.33	**62.76**
1978	$47.90	49.25	50.50	51.17	48.50	49.03	51.16	49.75	47.50	47.83	53.66	57.16	**50.28**
1977	$49.30	48.75	50.08	50.25	46.03	42.58	41.83	43.56	41.83	36.10	36.00	43.00	**44.11**
1976	$47.33	52.00	62.30	64.92	62.83	63.43	64.50	56.90	51.00	44.91	44.70	47.66	**55.20**
1975	$46.42	47.00	47.49	49.29	49.16	44.13	40.54	43.58	45.20	42.41	42.00	42.08	**44.81**
1974	$48.92	58.96	68.75	69.13	55.17	57.12	60.37	56.83	58.97	60.50	54.38	47.33	**58.03**
1973	$34.65	35.53	34.99	35.36	38.57	40.41	38.50	37.83	39.08	41.89	48.66	47.66	**39.43**
1972	$23.24	24.58	24.58	24.84	25.24	25.17	24.83	25.16	25.66	26.33	26.58	29.41	**25.46**
1971	$26.13	26.58	24.33	23.84	24.17	23.42	23.17	23.24	23.42	22.25	21.04	21.06	**23.55**
1970	$29.83	34.08	32.93	29.42	31.50	31.30	28.08	27.77	27.75	25.50	22.43	23.17	**28.64**
1969	$22.42	22.74	22.03	21.71	22.79	23.17	23.50	24.75	26.36	24.87	24.92	27.56	**23.90**
1968	$22.97	23.25	21.50	20.10	19.25	18.79	18.70	19.17	19.17	18.33	19.23	20.86	**20.11**
1967	$20.69	20.91	20.58	20.17	19.73	19.83	19.66	20.25	20.42	19.99	20.80	22.00	**20.42**
1966	$21.37	22.71	23.67	22.83	21.63	21.43	22.50	21.96	21.17	21.10	20.75	20.50	**21.80**
1965	$25.00	24.71	24.76	24.58	24.20	23.00	23.04	22.37	21.08	19.91	20.57	20.83	**22.83**
1964	$21.50	21.00	20.70	21.58	21.37	22.16	23.04	24.76	23.41	23.25	24.43	25.17	**22.69**
1963	$20.42	21.25	21.00	21.17	20.75	18.77	18.66	18.97	19.29	19.25	18.83	19.83	**19.85**
1962	$25.75	23.75	21.75	21.43	19.75	18.50	19.67	20.23	19.50	18.17	17.83	18.91	**20.44**
1961	$22.08	23.82	27.42	26.42	24.17	24.61	24.17	24.67	26.33	25.50	23.17	24.30	**24.72**
1960	$28.17	25.75	22.20	22.88	22.70	20.92	21.09	22.03	22.25	20.09	18.50	19.30	**22.15**
1959	$29.21	30.33	28.27	23.34	23.33	27.50	26.92	27.50	28.20	30.50	31.33	28.36	**27.90**
1958	$25.84	28.75	27.59	24.17	24.67	26.25	27.23	29.67	29.17	28.75	29.33	28.70	**27.51**
1957	$47.43	44.04	39.58	34.75	38.07	45.84	44.88	43.17	37.13	27.80	24.67	24.20	**37.63**
1956	$43.29	40.13	40.03	43.88	39.73	35.08	36.42	44.40	46.50	44.88	48.33	51.63	**42.86**
1955	$26.33	27.46	28.83	27.17	25.67	26.07	30.46	35.17	35.77	36.13	35.73	41.32	**31.34**
1954	$23.25	20.67	18.38	19.73	22.25	21.63	20.54	21.25	22.42	25.79	26.27	25.07	**22.27**
1953	$42.83	42.25	40.68	37.13	31.72	33.04	36.83	35.89	31.19	26.07	29.50	25.83	**34.41**
1952	$42.83	42.83	42.83	42.83	42.83	42.83	42.83	42.83	42.83	42.83	42.83	42.83	**42.83**
1951	$42.46	42.69	42.17	42.17	42.17	42.17	42.17	42.17	42.17	42.33	42.83	42.83	**42.36**
1950	$20.88	21.17	22.18	23.46	25.84	31.67	29.92	32.08	34.50	34.92	34.92	40.27	**29.32**
1949	$39.62	34.75	28.90	19.61	18.50	17.38	15.77	17.52	21.00	21.69	24.25	23.15	**23.51**
1948	$40.31	39.61	38.58	39.16	39.50	39.42	40.16	41.92	41.92	41.92	41.92	41.55	**40.50**
1947	$31.20	33.34	38.71	34.88	28.48	31.90	37.53	39.46	37.77	39.95	41.21	40.00	**36.20**
1946	$19.17	19.17	19.17	19.17	19.17	19.17	19.17	19.17	19.17	19.17	23.34	27.50	**20.21**

1. Average price of No. 2 bundles delivered to consumers at Pittsburgh, Philadelphia and Chicago.
Note: OPA ceiling prices effective April 3, 1941, terminated Nov. 10, 1946. OPS ceiling prices effective Feb. 7, 1951, terminated Feb. 13, 1953.
Source: *Iron Age*

Finished steel composite price[1] — cents per pound

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Average
1979	19.549	19.549	19.549	19.606	19.637	19.668	19.998	20.311	20.311	20.547	20.547	20.547	**19.984**
1978	16.294	17.324	17.393	17.670	17.670	17.670	17.875	18.719	18.719	18.719	18.719	18.719	**17.957**
1977	15.146	15.146	15.146	15.146	15.146	15.146	15.941	15.941	16.043	16.043	16.043	16.043	**15.577**
1976	13.693	13.693	13.693	13.693	13.835	14.186	14.502	14.598	14.598	14.598	14.598	14.880	**14.213**
1975	12.739	12.928	12.928	12.928	12.928	12.920	12.912	12.912	12.961	13.692	13.693	13.693	**13.102**
1974	9.456	9.480	9.480	10.033	10.033	11.108	12.075	12.346	12.389	12.433	12.433	12.433	**11.141**
1973	9.363	9.363	9.363	9.363	9.363	9.363	9.363	9.363	9.363	9.432	9.432	9.432	**9.380**
1972	9.014	8.998	8.998	8.998	8.998	8.998	8.998	8.998	8.998	8.998	8.998	8.998	**8.999**
1971	7.838	7.838	8.012	8.055	8.055	8.234	8.480	8.728	8.977	8.977	8.977	8.977	**8.429**
1970	7.263	7.351	7.434	7.504	7.560	7.813	7.813	7.813	7.813	7.813	7.813	7.813	**7.650**
1969	6.794	6.904	6.961	6.961	7.042	7.042	7.125	7.252	7.252	7.252	7.252	7.263	**7.091**
1968	6.545	6.545	6.545	6.545	6.545	6.545	6.545	6.767	6.767	6.767	6.538	6.538	**6.600**
1967	6.445	6.448	6.448	6.448	6.448	6.448	6.448	6.448	6.485	6.496	6.496	6.510	**6.464**
1966	6.368	6.383	6.383	6.383	6.383	6.376	6.376	6.376	6.433	6.445	6.445	6.445	**6.399**
1965	6.368	6.368	6.368	6.368	6.368	6.368	6.368	6.368	6.368	6.368	6.368	6.368	**6.368**
1964	6.368	6.368	6.368	6.368	6.368	6.368	6.368	6.368	6.368	6.368	6.368	6.368	**6.368**
1963	6.196	6.196	6.196	6.196	6.279	6.279	6.279	6.279	6.279	6.368	6.368	6.368	**6.273**
1962	6.196	6.196	6.196	6.196	6.196	6.196	6.196	6.196	6.196	6.196	6.196	6.196	**6.196**
1961	6.196	6.196	6.196	6.196	6.196	6.196	6.196	6.196	6.196	6.196	6.196	6.196	**6.196**
1960	6.196	6.196	6.196	6.196	6.196	6.196	6.196	6.196	6.196	6.196	6.196	6.196	**6.196**
1959	6.196	6.196	6.196	6.196	6.196	6.196	6.196	6.196	6.196	6.196	6.196	6.196	**6.196**
1958	5.967	5.967	5.967	5.967	5.967	5.967	5.967	6.175	6.194	6.196	6.196	6.196	**6.060**
1957	5.622	5.649	5.666	5.670	5.670	5.670	5.818	5.967	5.967	5.967	5.967	5.967	**5.800**
1956	5.174	5.174	5.179	5.179	5.179	5.179	5.179	5.560	5.622	5.622	5.622	5.622	**5.358**
1955	4.797	4.795	4.797	4.797	4.797	4.797	5.081	5.174	5.174	5.174	5.174	5.174	**4.977**
1954	4.634	4.634	4.634	4.634	4.634	4.634	4.789	4.801	4.801	4.798	4.797	4.797	**4.716**
1953	4.376	4.376	4.376	4.376	4.393	4.517	4.634	4.634	4.634	4.634	4.633	4.633	**4.518**
1952	4.131	4.131	4.131	4.131	4.131	4.131	4.180	4.376	4.376	4.376	4.376	4.376	**4.237**
1951	4.131	4.131	4.131	4.131	4.131	4.131	4.131	4.131	4.131	4.131	4.131	4.131	**4.131**
1950	3.837	3.837	3.837	3.837	3.837	3.837	3.837	3.837	3.837	3.837	3.837	4.131	**3.882**
1949	3.720	3.719	3.715	3.709	3.706	3.705	3.705	3.705	3.705	3.705	3.705	3.754	**3.713**
1948	3.193	3.215	3.241	3.241	3.214	3.211	3.293	3.720	3.720	3.720	3.720	3.720	**3.434**

1. Weighted index of steel bars, shapes, plates, wire, rails, black pipe, hot and cold rolled sheets and strips.
Source: *Iron Age*

Obsolete Ferrous Scrap Inventory, December 31, 1979 — thousands of net tons

	Potential reserve base[1]		Resource base[2]	
A. 1955 Inventory:				
1. As originally published	537,000.0		537,000.0	
2. Adjustment to shift to potential reserve base	−70,884.0		—	
3. Adjusted for corrosion				
a. Prior to 1955	−62,800.0		—	
b. 1956-77	−31,903.8		—	
c. 1978-79	− 2,903.8		—	
4. Total as adjusted		368,508.4		537,000.0
B. Net additions to inventory, 1956-79:				
1. As originally calculated	344,324.1		344,324.1	
2. Adjusted to shift to resource base	—		52,337.3	
3. Adjusted for corrosion	−12,496.4		—	
4. Total as adjusted		331,827.7		396,661.4
C. 1979 year-end inventory		700,336.1		933,661.4

1. *Potential reserves*—concentrations of iron and steel scrap whose quantity may be known or inferred, whose condition is such that it may be used immediately, and whose availability is such that it may be recovered within the constraints of high but realistic prices (that is, prices possibly several times higher than present levels) and known technology.
2. *Resources*—discarded material located on the earth's surface or in land fills, existing in such a form that it could be extracted and used.

Source: Iron and Steel Scrap--Its Accumulation and Availability Updated to December 31, 1979, Robert R. Nathan Associates, Inc.